

IN THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer, and Assignee reserves the right to claim this subject matter in a continuing application:

1. (Previously Presented) A scanner comprising:

an optical scanning chassis having a light source, wherein the light source comprises:

a primary light source comprising a tube having a first end and a second end, wherein the tube includes a tube wall applied with a total reflective material, such that an opening for emitting a light beam collected from scattered light is formed;

a first and a second auxiliary light source, disposed proximate to the first and second end respectively of the primary light source; and

a transmission assembly for supplying driving power to the optical scanning chassis.

2. (Previously Presented) The scanner of claim 1, wherein the total reflective material is coated on an outer wall of the tube of the primary light source.

3. (Previously Presented) The scanner of claim 1, wherein the total reflective material is coated on an inner wall of the tube of the primary light source.

4. (Previously Presented) The scanner of claim 1, wherein the first auxiliary light source and the second auxiliary light source each comprise a tube at least partially coated with total reflective material.

5. (Previously Presented) The scanner of claim 4, further comprising a controlling circuitry, adapted to adjust a light output intensity of the first and the second auxiliary light sources.

6. (Previously Presented) A scanner, comprising:

- an optical scanning chassis, having a light source, comprising:
 - a primary light source comprising a tube having a tube wall, wherein the tube wall includes a converging lens wall portion, adapted to collect scattered light and emit a light beam;
 - a first and a second auxiliary light source, disposed proximate to the first and second end respectively of the primary light source; and
 - a transmission assembly for supplying driving power to the optical scanning chassis.

7. (Currently Amended) The scanner of claim 6, wherein the first auxiliary light source and the second auxiliary light source each comprise a tube [[at]] having a converging lens wall portion.

8. (Previously Presented) The scanner of claim 7, further comprising a controlling circuitry, adapted to adjust a light output intensity of the first and the second auxiliary light sources.

9. (Previously Presented) A light source adapted for use in a scanner, the light source comprising:

- a primary light source comprising a tube having a tube wall, a first end, a second end, and a center portion, wherein the tube wall is applied with a total reflective material such that an opening for emitting a light beam is formed, wherein the total reflective material applied proximate to the first and second end comprises a total reflective material having a higher density than the material applied to the center portion of the tube wall; and
- a plurality of electrodes, disposed at both sides of the tube.

10. (Previously Presented) The light source of claim 9, wherein the total reflective material is applied to an outer side of the tube wall.

11. (Previously Presented) The light source of claim 9, wherein the total reflective material is applied to

interior side of the tube wall.

12. (Cancelled)

13. (Previously Presented) A scanner light source, comprising:

means for collecting scattered light;

means for emitting the collected light as a beam of light having a light flux density greater than the scattered light; and

means for sensing at least a portion of the emitted light.

14. (Previously Presented) The scanner light source of claim 13, further comprising:

means for forming collecting electronic data representative of the sensed light.

15. (Previously Presented) The scanner light source of claim 13, wherein the means for sensing comprises a light sensing device.

16. (Previously Presented) The scanner light source of claim 13, further comprising:

means for emitting a plurality of additional beams of light; and

means for compensating the collected light by use of the plurality of additional beams of light.

17. (Previously Presented) The scanner light source of claim 13, wherein the means for collecting and means for emitting comprise:

a primary light source comprising a tube having a tube wall, wherein the tube wall includes a converging lens wall portion.

18. (Previously Presented) The scanner light source of claim 13, wherein the means for collecting and means for emitting comprise:

a primary light source comprising a tube having a tube wall, applied with a total reflective material, such that an opening is formed.

19. (Previously Presented) A method of forming a light source for a scanner, comprising:

applying total reflective material on a tube wall of the light source, wherein the light source comprises a tube having a tube wall, a first end, a second end, and a center portion, wherein the total reflective material is applied to the tube wall such that an opening for emission of a light beam is formed, and wherein the total reflective material applied proximate to the first and second end comprises a total reflective material having a higher density than the material applied to the center portion of the tube wall; and

disposing an electrode on each of said first and second ends.

20. (Previously Presented) The method of claim 19, wherein the total reflective material is applied to an outer side of the tube wall.

21. (Previously Presented) The method of claim 19, wherein the total reflective material is applied to interior side of the tube wall.

22. (Previously Presented) An apparatus, comprising:

an optical scanning chassis having a light source, wherein the light source comprises:

a primary light source comprising a tube having a first end and a second end, wherein the tube includes a tube wall applied with a reflective material, such that an opening for emitting a light beam collected from scattered light is formed; and

a first and a second auxiliary light source, disposed proximate to the first and second end respectively of the primary light source.

23. (Previously Presented) The apparatus of claim 22, wherein the reflective material is coated on an

outer wall of the tube of the primary light source.

24. (Previously Presented) The apparatus of claim 22, wherein the reflective material is coated on an inner wall of the tube of the primary light source.

25. (Previously Presented) The apparatus of claim 22, wherein the first auxiliary light source and the second auxiliary light source each comprise a tube at least partially coated with reflective material.

26. (Previously Presented) A scanner light source, comprising:

a primary light source comprising a tube having a first end and a second end, wherein the tube includes a tube wall applied with a total reflective material, such that an opening for emitting a light beam collected from scattered light is formed; and

a first and a second auxiliary light source, each comprising a tube at least partially coated with reflective material, wherein the first and second auxiliary light sources are adapted to be disposed on the scanner proximate to the first and second end respectively of the primary light source.

27. (Previously Presented) The scanner light source of claim 26, wherein the total reflective material is coated on an outer wall of the tube of the primary light source.

28. (Previously Presented) The scanner light source of claim 26, wherein the total reflective material is coated on an inner wall of the tube of the primary light source.